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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,688	04/21/2006	Hiroyuki Hayashikawa	043890-0786	7184
	7590 01/06/200 `WILL & EMERY LL	EXAMINER		
600 13TH STREET, NW			PARK, KINAM	
WASHINGTON, DC 20005-3096			ART UNIT	PAPER NUMBER
			2828	
			MAIL DATE	DELIVERY MODE
			01/06/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/576,688	HAYASHIKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	KINAM PARK	2828				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 10 N	lovember 2008					
'=	/ _					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
	Claim(s) <u>1-3</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1-3</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
* See the attached detailed Office action for a list Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	(PTO-413) ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/10/2008. 5) Notice of Informal Patent Application 6) Other:						

Application/Control Number: 10/576,688 Page 2

Art Unit: 2828

DETAILED ACTION

1. In view of the Appeal brief filed on 11/10/08, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

Response to Arguments

2. Applicant's arguments filed on 11/10/08 have been fully considered but they are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 10/576,688

Art Unit: 2828

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 3

4. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over MOTOMIYA et al. (JP 02177582) and further, in view of AKAGI (JP 09266342).

Regarding claim 1,

MOTOMIYA et al. discloses in figure 1-3, abstract and specification:

1. A gas laser oscillator comprising:

a discharge part (1) for exciting laser gas;

an air blower (6) for blowing the laser gas;

a laser gas flow pipe (7) constituting a circulation route of laser gas between the discharge part (1) and the air blower (6);

a driving part (6, center portion) for driving the air blower; a divide wall (line between 6 and 12) separating the air blower and the driving part;

a gas supply apparatus (inherent, near 16) having at least one valve, and supplying laser gas to the laser gas flow pipe;

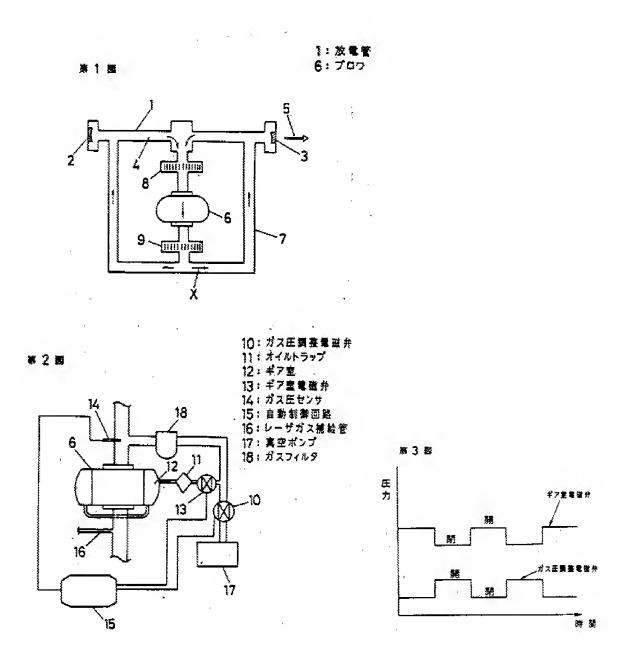
a main ejection apparatus (pipe with 10) having at least one valve (10) and ejecting laser gas out from the laser gas flow pipe;

a sub ejection apparatus (pipe with 13) having a pipe ejecting the laser gas from the driving part of the air blower;

a detector (14) for detecting an amount of the laser gas flowing through the laser gas flow pipe;

Art Unit: 2828

a controller (15) controlling each valve of the gas supply apparatus and the main ejection apparatus.



However, MOTOMIYA et al. are silent as to a clogged laying pipe judge part judging the laying pipe of the sub ejection apparatus to be clogged when the detected

amount of the laser gas is smaller than a predetermined value, wherein a signal from the detector is input to the controller; and wherein the controller compares the ejected amount of the laser gas which is detected at a time the valve of the main ejection apparatus is closed, with a predetermined value.

AKAGI discloses in figure 2, 3 and abstract the solution for the clogging of a leak valve by setting the open/close duty value of a gas exhaustion valve and operating a display means when the actual open/close duty value of the gas exhaustion value becomes the set value or higher.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to combine the solution for the clogging of a leak valve of AKAGI with a gas laser oscillator of MOTOMIYA et al. because this provides the solution for the clogging of a leak valve due to dust, oil mist, etc., mixed with laser gas (see, Abstract of AKAGI).

Regarding claim 2, 3,

Note that MOTOMIYA et al. discloses in figure 1-3, abstract and specification an opening and closing cycle detector (15) for detecting an opening and closing cycle of the valves of the gas supply apparatus when the valve of the main ejection apparatus is closed (see, figure 3) and AKAGI discloses in figure 2, 3 and abstract the limitation of the clogged laying pipe judge part judging the pipe of the sub ejection apparatus clogged when the detected opening and closing cycle is longer than a predetermined value (see, abstract of AKAGI) (claim 2), an alarm when the clogged laying pipe judge

Application/Control Number: 10/576,688 Page 6

Art Unit: 2828

part judges the pipe of the sub ejection apparatus is clogged (see, 24, figures 1 of AKAGI) (claim 3).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

lehisa (US 4956846) discloses the gas laser device.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kinam Park whose telephone number is (571) 270-1738. The examiner can normally be reached on from 9:00 AM-5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY, can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/576,688 Page 7

Art Unit: 2828

/K. P./

Examiner, Art Unit 2828

/Minsun Harvey/ Supervisory Patent Examiner, Art Unit 2828